

09/111, 731 (Shiraiwa et al.)



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/111,731	07/08/98	SHIRAIWA	Y 35.C12836

005514 LM02/0309  
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NEW YORK NY 10112

EXAMINER

GOOD JOHNSON, M

ART UNIT	PAPER NUMBER
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2779

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DATE MAILED: 03/09/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.  
09/111,731

Applicant(s)  
Shiraiwa et al.

Examiner  
Motlewa Good-Johnson

Group Art Unit  
2779



☒ Responsive to communication(s) filed on Jul 8, 1998

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claim

☒ Claim(s) 1-17 is/are pending in the application

Of the above, claim(s) none is/are withdrawn from consideration

☐ Claim(s) is/are allowed.

☒ Claim(s) 1-17 is/are rejected.

☐ Claim(s) is/are objected to.

☐ Claims are subject to restriction or election requirement.

## Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been

☒ received.

☐ received in Application No. (Series Code/Serial Number)

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received:

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 5

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

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### **DETAILED ACTION**

1. This action is responsive to communications: application, filed on 07/08/1998; IDS paper #5, filed on 05/03/1999.
2. Claims 1-17 are pending in the case. Claims 1, 8-10 and 16-17 are independent claims. No claims have yet been amended.
3. The present title of the application is "Image Processing Apparatus Method and Recording Medium Therefor" (as originally filed).

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*Priority*

4. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

*Claim Rejections - 35 USC § 102*

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

6. Claims 1-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Hino, U.S. Patent Number 5,956,015, "Method and System for Correcting Color Based upon Ambient Light", class 345/153, 09/21/1999, filed 12/18/1995.

As per independent claim 1, **"an image processing method for converting data dependent on a first illuminating light into data dependent on a second illuminating light, comprising the steps of: storing conversion data for plural illuminating lights . . . ; Hino discloses in col. 8, lines 39-40; generating data indicating the proportion of synthesis of said plural illuminating lights . . . ; Hino discloses in col. 6, lines 7-10; and converting data dependent on first illuminating light into data dependent on said second illuminating light, based on said conversion data . . ."** Hino discloses in col. 8, lines 61-64.

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With respect to dependent claim 2, “... **plural illuminating lights are different in color rendering property.**” Hino discloses in col. 8, lines 50-51.

With respect to dependent claim 3, “... **data indicating the proportions of plural syntheses are stored in advance according to the kinds of illuminating light.**” Hino discloses in col. 6, lines 37-38 and in col. 8, lines 39-42.

With respect to dependent claim 4, “... **the kind of said second illuminating light is designated by the user and said data indicating the proportion of synthesis are selected according to said designated kind of the second illuminating light.**” Hino discloses in col. 6, lines 40-43.

With respect to dependent claim 5, “... **data indicating the proportion of synthesis are generated according to a manual instruction of the user.**” Hino discloses in col. 6, lines 40-43.

With respect to dependent claim 6, “... **data indicating the proportion of synthesis are generated according to the output from a sensor for measuring the illuminating light.**” Hino discloses in col. 5, lines 9-10.

With respect to dependent claim 7, “... **said conversion data are matrix data.**” Hino discloses in col. 1, lines 43-45.

As per independent claims 8 and 9 respectively, “**an image processing apparatus for converting data . . .**” and “**a computer readable recording medium storing a program . . .**”,

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they are rejected based upon similar rational as above independent claim 1, **“an image processing method for converting data . . .”**

As per independent claim 10, **“an image processing method comprising steps of: setting an ambient lighting characteristic coefficient according to manual instruction; Hino discloses in col. 9, lines 14-18; inputting image data dependent on an input device; Hino discloses in col. 4, lines 39-41; and effecting correction for the ambient lighting on said inputted image data based on said input device . . .”** Hino discloses in col. 4, lines 51-55.

With respect to dependent claim 11, **“... correction for the ambient lighting is achieved by correction of color rendering based on said ambient lighting characteristic coefficient.”** Hino discloses in col. 7, lines 60-64.

With respect to dependent claim 12, **“... correction of color rendering is achieved by a weighted process on said conversion data corresponding to the plural light sources having different color rendering properties . . .”** Hino discloses in col. 8, lines 1-26.

With respect to dependent claim 13, **“... matrix coefficients relating to said correction for the ambient lighting are calculated according to said ambient lighting characteristic coefficient.”** Hino discloses in col. 8, lines 24-37.

With respect to dependent claim 14, **“... calculated matrix coefficients are registered according to manual instruction.”** Hino discloses in col. 4, lines 2-15.

With respect to dependent claim 15, **“... setting the color temperature and the luminance of the ambient light; Hino discloses in col. 7, lines 35-55; wherein said correction**

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**for the ambient light is achieved by a color adapted conversion according to said color temperature and luminance.”** Hino discloses in col. 7, lines 45-49.

As per independent claims 16 and 17 respectively, **“an image processing apparatus comprising: setting means . . .”** and **“a computer readable recording medium storing a program . . .”**, they are rejected based upon similar rational as above independent claim 10, **“an image processing method . . .”**

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*Conclusion*

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

5,905,503      Penna              345/426              05/18/1999      09/03/1996

Rendering an image using lookup tables giving illumination values for each light source by direction and distance.

5,566,283      Modegi et al.      345/426              10/15/1996

Computer graphic image storage conversion and generating apparatus.

6,018,350      Lee et al.              345/426              01/25/2000      10/29/1996

Illumination and shadow simulation in a computer graphics/imaging system.

5,892,585      Lianza et al.      356/405              04/06/1999      04/04/1997

Colorimeter for measurement of temporally variant light sources.

5,710,876      Peercy et al.      345/426              01/20/1998      05/25/1995

Computer graphics system for rendering images using full spectral illumination data.

5,977,946      Mizobata              345/112              11/02/1999      01/16/1997

Multi-window apparatus.



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8. Any response to this action should be mailed to:

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or faxed to:

(703)-308-9051 (**formal** communications intended for entry),

Or:

(703)-305-9724 (**informal** communications labeled **PROPOSED** or **DRAFT**).

Hand-delivered responses should be brought to:

Sixth Floor Receptionist, Crystal Park II, 2121 Crystal Drive, Arlington, VA.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Motilewa Good-Johnson, whose telephone number is (703)-305-3939 and can normally be reached Mondays, Tuesdays, Thursdays and Fridays from 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Powell, can be reached at (703)-305-9703.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703)-305-3900.

Motilewa Good-Johnson  
Patent Examiner  
Art Unit 2779

  
MARK R. POWELL  
SUPERVISORY PATENT EXAMINER  
GROUP 2700